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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/805,493	03/13/2001	Stan L. Reynolds		8177

7590

06/14/2002

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EXAMINER

LAM, THANH

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 06/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/805,493

Applicant(s)

Reynolds et al.

Examiner
Thanh Lam

Art Unit
2834



-- The MAILING DATE of

communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available if the period for reply is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If the period for reply set forth above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is set forth above, the application will become ABANDONED (35 U.S.C. § 133).
- Failure to reply within the period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received after the mailing date of this communication, even if timely filed, may reduce any earned patent term.

Status

- 1) ☒ This action is FINAL.
- 2) ☒ This action is non-final.

3) This application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.
- 5) Claim(s) 13-23 is/are withdrawn from consideration.
- 6) ☒ Claim(s) 1-21 is/are allowed.
- 7) ☐ Claim(s) 22 is/are rejected.
- 8) ☐ Claims 23 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 2

- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Application/Control Number: 09805493

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DETAILED ACTION

Claim Objections

1. Claim 6 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim 3. See MPEP § 608.01(n). Accordingly, the claim has not been further treated on the merits.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
3. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Maxwell.
Maxwell discloses an apparatus for storing energy for subsequent use in electrical or physical power generation, comprising a semi spheric liquid phase flywheel (13) connected by a mechanical means to a shaft (111) aligned along the rotational axis of the flywheel.
Regarding claim 2, Maxwell discloses a semi spheric structure acts as the flywheel shell and fluid container.
Regarding claim 3, Maxwell discloses a semi spheric structure made of a composite material acts as the flywheel shell and fluid container.

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Regarding claim 4, Maxwell discloses a perforated radial vein cluster is bonded to the inner surface of the sernispheric structure.

Regarding claim 5, Maxwell discloses a porous matrix is placed between the internal vanes.

Regarding claim 6, Maxwell discloses a small round or viscous particles are used in place of a fluid.

Regarding claim 7-12, Maxwell discloses the liquid phase flywheel is fitted with electrically conducting elements which, in rotating through a magnetic field, result in the generation of electrical power.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.



Thanh Lam

Patent Examiner

June 12, 2002